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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12823AT LANCE, MISSILE NUMBER 3382, ROUND NUMBER 327ECL (8 MARC--ETC(U)
MAR 79

UNCLASSIFIED

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 12823AT Lance, Missile Number 3382, Round Number 327ECL, are presented in tabular form.			

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INTRODUCTION

12823AT , Missile Number 3382 , Round Number 327ECL
 was launched from Don Site, White Sands Missile Range (WSMR), New Mexico,
 at 0830 MST, 3 March 1979 . The scheduled launch time was
0830 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction, wind velocity and cloud cover were made at the Don Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted anemometer. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at T-10 mins and T-0 mins:

SITE AND ALTITUDE

Don/9000 ft AGL

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 125% of apogee in 500-foot increments.

WSD 0830 MST
 HMN 0830 MST
 JAL 0820 MST

Accession For NTIS GADR DDC TAB Unannounced Justification	1	By	Distribution/	Availability Codes	Availand/or Special	Dist <i>A</i>

23 Oct

The data are presented in the following tabulations:

ELEVATION	3997	FEET/MSL
PRESSURE	877.9	MBS
TEMPERATURE	8.5	°C
RELATIVE HUMIDITY	40	%
DEW POINT	-4.3	°C
DENSITY	1082	GM/M ³
WIND SPEED	05	MPH
WIND DIRECTION	300	DEGREES
CLOUD COVER	Clear	

TABLE I. SURFACE OBSERVATIONS TAKEN AT DON SITE
AT 0830 MST/8 MARCH 1979
12823 Lance, MISSILE NUMBER 3382
ROUND NUMBER 327-ECL

OD 12823 Lance (FA), Missile Number 3382, Round Number 327ECL

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
SUR	300	0.5
100	240	2.5
200	Calm	Calm
300	265	0.5
400	350	1.0
500	346	5.0
600	341	9.0
700	328	7.0
800	315	5.0
900	275	4.0
1000	235	3.0
1100	218	3.0
1200	200	2.5
1300	272	3.5
1400	344	4.5
1500	352	6.5
1600	359	8.0
1700	358	8.0
1800	357	7.5
1900	346	6.0
2000	335	4.0

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
2100	329	4.5
2200	322	4.5
2300	320	4.5
2400	318	4.5
2500	294	3.0
2600	270	1.0
2700	240	2.5
2800	210	3.5
2900	201	3.5
3000	192	3.5
3100	194	3.0
3200	196	2.0
3300	215	2.5
3400	234	3.0
3500	288	3.0
3600	342	3.0
3700	259	2.5
3800	175	2.0
3900	204	3.0
4000	232	3.5
4100	244	4.5

TABLE II. PILOT-BALLOON-MEASURED WIND DATA,
RELEASED FROM DON SITE AT 0822 MST, 8 March 1979,
12823 Lance (FA), MISSILE NUMBER 3382, ROUND NUMBER 327ECL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 511,988.37

Y = 247,396.36

Z = 3996.83

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
4200	255	5.0
4300	262	5.5
4400	269	5.5
4500	272	5.5
4600	275	5.5
4700	293	7.5
4800	311	9.5
4900	311	10.5
5000	310	11.0
5100	314	12.5
5200	318	14.0
5300	312	13.5
5400	306	12.5
5500	302	12.0
5600	297	11.0
5700	301	11.5
5800	304	12.0
5900	301	13.0
6000	297	13.5
6100	299	13.5
6200	300	13.0

TABLE II

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
6300	327	11.0
6400	353	8.5
6500	332	11.0
6600	311	13.5
6700	314	13.5
6800	316	13.5
6900	318	14.5
7000	320	15.0
7100	320	14.5
7200	320	14.0
7300	319	14.0
7400	317	13.5
7500	315	14.0
7600	313	14.0
7700	310	13.0
7800	306	12.0
7900	307	12.5
8000	307	12.5
8100	304	12.5
8200	300	12.0
8300	302	12.5

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
SUR	300	5.0
100	330	2.5
200	Calm	Calm
300	352	0.5
400	343	1.0
500	337	4.5
600	331	7.5
700	317	5.5
800	302	3.5
900	300	3.0
1000	298	2.0
1100	354	2.0
1200	050	1.5
1300	025	3.5
1400	359	5.5
1500	002	5.5
1600	004	5.0
1700	003	4.5
1800	002	3.5
1900	355	5.0
2000	347	6.5

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
2100	336	5.5
2200	324	4.0
2300	338	4.0
2400	352	3.5
2500	275	3.0
2600	198	2.5
2700	189	4.5
2800	179	6.0
2900	181	4.5
3000	182	3.0
3100	186	2.5
3200	189	1.5
3300	185	3.0
3400	181	4.5
3500	198	4.5
3600	215	4.0
3700	217	4.0
3800	219	3.5
3900	257	4.0
4000	295	4.5
4100	299	5.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA RELEASED FROM DON SITE
AT 0833 MST/8 MARCH 1979, 12823 LANCE (FA) MISSILE NUMBER 3382
ROUND NUMBER 327 ECL.

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
4200	303	5.5
4300	296	6.0
4400	288	6.0
4500	295	8.5
4600	301	10.5
4700	304	10.0
4800	306	9.5
4900	306	10.0
5000	305	10.0
5100	307	11.0
5200	308	11.5
5300	302	11.5
5400	296	11.5
5500	294	11.0
5600	292	10.5
5700	294	11.5
5800	295	12.5
5900	301	12.5
6000	306	12.0
6100	308	12.5
6200	310	13.0

TABLE III.

HEIGHT (Feet)	DIRECTION (Degrees)	SPEED (MPH)
6300	309	14.5
6400	308	15.5
6500	312	14.5
6600	316	13.0
6700	315	13.0
6800	314	13.0
6900	315	14.0
7000	315	14.5
7100	321	16.0
7200	326	17.0
7300	323	16.0
7400	320	15.0
7500	323	14.5
7600	325	13.5
7700	323	14.0
7800	321	14.0
7900	320	14.5
8000	319	14.5
8100	312	14.0
8200	305	13.0
8300	305	14.0

ANEMOMETER HEIGHT 50 FT.		
T-TIME	DIR DEG	SPEED MPH
-30	360	3.0
-20	354	2.5
-10	348	3.5
0.0	357	2.0
+10	353	1.0

TABLE IV. DON SITE FIXED POLE ANEMOMETER
MEASURED WINDS

TYPE LANCE MISSILE NO. 3382 ROUND NO. 327ECL
LAUNCHED FROM DON SITE, 8 MARCH 1979, 0830 LST
NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

SIGNIFICANT LEVEL DATA
0670020117
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
8 MAR. 79 0630 HRS MST
ASCENSION NO. 117

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
678.6 3999.0	9.0	44.0
864.2 4437.4	7.9	34.0
850.0 4840.2	-5.1	28.0
807.2 6314.6	-4.8	29.0
748.6 8372.0	-7.4	30.0
700.0 10194.2	-15.6	18.0
637.8 12504.1	-22.1	18.0
543.5 16308.0	-28.9	18.0
502.0 18902.8	-31.6	20.0
457.6 21096.4	-33.4	26.0
400.0 24346.3	-41.1	23.0
334.6 28512.1	-49.6	23.0
300.0 30973.4	-42.6	
263.4 33820.6	-49.9	
250.0 34942.8	-50.8	
233.0 36440.9	-54.5	
223.0 37364.7	-55.3	
218.0 37843.5	-53.3	
213.4 38296.6	-52.7	
200.0 39575.1	-53.1	
185.6 41238.9	-54.0	
163.2 43328.2	-56.8	
160.0 44371.0	-57.3	
150.0 45709.0	-59.6	
140.6 47036.9	-61.8	
122.6 49827.0	-62.8	
103.8 52253.7	-66.3	
102.4 53444.1	-66.8	
101.0 53915.7	-68.0	
89.4 56138.0	-67.9	
80.4 58267.6	-63.2	
70.0 61048.3	-67.9	
68.4 61512.9	-62.9	
50.0 67947.3	-58.9	
30.0 78570.7	-57.5	
21.6 85491.5	-50.5	

STATION ALTITUDE 3989.00 FEET MSL
 8 MAP, 79 0630 HRS NST
 ASCENSION NO. 117

UPPER AIR DATA
 0670020117
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	876.6	9.0	-2.6	44.0	1082.4	655.1	30.0	1.9	1.000265
4000.0	878.2	9.0	-2.7	43.8	1082.1	655.1			1.000265
4500.0	802.2	8.6	-6.7	33.2	1064.3	654.5			1.000255
5000.0	846.6	13.0	-5.0	23.1	1023.8	659.6			1.000249
5500.0	831.4	12.9	-4.9	28.4	1010.5	659.5			1.000245
6000.0	816.5	12.8	-4.8	28.8	992.6	659.5			1.000241
6500.0	801.8	12.5	-5.0	29.1	975.9	659.1			1.000237
7000.0	767.3	11.6	-5.6	29.3	951.2	658.1			1.000233
7500.0	773.0	10.8	-6.3	29.6	946.7	657.1			1.000229
8000.0	759.0	9.9	-6.9	29.8	932.4	656.1			1.000225
8500.0	745.3	9.0	-8.0	29.2	918.5	655.0			1.000221
9000.0	731.6	8.0	-10.3	25.9	905.1	653.7			1.000215
9500.0	718.2	7.0	-12.9	22.6	892.0	652.5			1.000210
10000.0	705.0	6.0	-15.7	19.3	879.0	651.2			1.000205
10500.0	692.0	4.8	-17.5	18.0	866.5	649.8	282.9	21.8	1.000201
11000.0	679.1	3.5	-18.5	18.0	854.4	648.2	279.3	22.6	1.000197
11500.0	666.4	2.2	-19.6	18.0	842.4	646.7	277.7	22.7	1.000194
12000.0	654.0	.9	-20.7	18.0	830.7	645.2	280.0	21.5	1.000191
12500.0	641.8	-4.4	-21.7	18.0	819.1	643.6	281.8	21.2	1.000188
13000.0	629.6	-1.5	-22.6	18.0	806.8	642.3	283.2	21.5	1.000185
13500.0	617.5	-2.5	-23.5	18.0	794.2	641.1	283.4	23.2	1.000182
14000.0	605.7	-3.4	-24.3	18.0	781.9	640.0	283.4	25.0	1.000179
14500.0	594.1	-4.4	-25.1	18.0	769.8	638.8	284.6	25.8	1.000176
15000.0	582.7	-5.4	-25.9	18.0	757.8	637.6	285.7	26.6	1.000173
15500.0	571.5	-6.4	-26.8	18.0	745.1	636.4	285.9	26.7	1.000170
16000.0	560.6	-7.4	-27.6	18.0	734.5	635.2	286.2	27.0	1.000167
16500.0	549.8	-8.4	-28.4	18.0	723.1	634.0	287.1	27.7	1.000164
17000.0	539.2	-9.4	-29.2	18.2	712.0	632.8	287.1	28.5	1.000162
17500.0	528.6	-10.6	-29.8	18.7	701.0	631.4	287.3	29.9	1.000159
18000.0	518.2	-11.7	-30.5	19.1	690.2	630.1	287.6	31.2	1.000156
18500.0	508.0	-12.8	-31.2	19.6	679.6	628.7	288.3	32.2	1.000154
19000.0	498.0	-13.9	-31.6	20.3	669.1	627.3	289.4	33.0	1.000151
19500.0	488.1	-15.1	-32.1	21.6	658.7	625.9	290.5	32.6	1.000149
20000.0	478.3	-16.3	-32.5	23.0	648.4	624.5	291.9	31.9	1.000147
20500.0	468.4	-17.4	-32.9	24.4	638.4	623.1	294.2	30.2	1.000144
21000.0	459.4	-18.6	-33.4	25.7	628.4	621.7	296.1	28.6	1.000142
21500.0	450.0	-19.7	-34.4	25.6	618.4	620.3	298.1	27.4	1.000140
22000.0	440.8	-20.9	-35.6	25.2	608.5	618.9	293.5	26.7	1.000137
22500.0	431.6	-22.0	-36.7	24.7	598.6	617.5	290.5	27.2	1.000135
23000.0	422.9	-23.1	-37.9	24.2	589.2	616.1	288.7	27.9	1.000133

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

UPPER AIR DATA
067002Z117
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
8 HAF. 79 0630 HRS MST
ASCENSION NO. 117

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL - FEET	PRESSURE "MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TM) SPEED KNOTS	INDEX OF REFRACTION
43500.0	414.3	-24.3	23.8	579.8	614.6	289.2	1.000130
44000.0	405.8	-25.4	23.3	570.5	613.2	289.7	1.000128
44500.0	397.4	-26.6	23.0	561.3	611.8	290.4	1.000126
45000.0	388.9	-27.7	23.0	552.0	610.3	290.3	1.000124
45500.0	380.7	-28.9	23.0	542.9	608.9	289.8	1.000122
46000.0	372.6	-30.1	23.0	534.0	607.4	288.4	1.000120
46500.0	364.7	-31.3	23.0	525.2	605.9	286.7	1.000118
47000.0	357.0	-32.4	23.0	516.6	604.4	285.9	1.000116
47500.0	349.4	-33.6	23.0	508.2	603.0	279.8	1.000114
48000.0	342.0	-34.8	23.0	499.8	601.5	276.3	1.000112
48500.0	334.8	-36.0	23.0	491.7	600.0	275.1	1.000110
49000.0	327.4	-37.3	18.4**	483.6	598.3	274.3	1.000108
49500.0	320.3	-38.6	13.8**	475.7	596.6	277.9	1.000106
50000.0	313.2	-40.0	9.1**	468.0	594.9	281.7	1.000104
50500.0	306.4	-41.3	4.4**	460.4	593.2	284.3	1.000103
51000.0	299.6	-42.7		452.9	591.4	286.8	1.000101
51500.0	292.9	-44.0		445.1	589.8	290.8	1.000099
52000.0	286.3	-45.2		437.5	588.1	294.9	1.000097
52500.0	279.8	-46.5		430.1	586.5	296.8	1.000096
53000.0	273.5	-47.8		422.7	584.8	298.1	1.000094
53500.0	267.3	-49.1		415.6	583.2	294.4	1.000093
54000.0	261.2	-50.0		407.9	581.9	289.4	1.000091
54500.0	255.2	-50.4		399.2	581.4	283.9	1.000089
55000.0	249.3	-50.9		390.9	580.7	277.6	1.000087
55500.0	243.5	-52.2		383.9	579.1	273.9	1.000086
56000.0	237.9	-53.4		377.1	577.5	271.6	1.000084
56500.0	232.3	-54.6		370.3	576.0	270.9	1.000082
57000.0	226.9	-55.0		362.3	575.4	271.7	1.000081
57500.0	221.6	-54.7		353.4	575.8	272.6	1.000079
58000.0	216.4	-53.1		342.6	577.9	273.4	1.000076
58500.0	211.4	-52.8		334.1	578.4	274.5	1.000074
59000.0	206.5	-52.9		326.5	578.2	275.8	1.000073
59500.0	201.7	-53.0		312.1	577.7	277.1	1.000071
60000.0	197.0	-53.3		305.2	577.3	278.4	1.000069
60500.0	192.4	-53.6		298.5	576.9	279.7	1.000068
61000.0	187.9	-53.9		292.1	576.3	280.7	1.000066
61500.0	183.5	-54.3		286.1	575.4	281.6	1.000065
62000.0	179.2	-55.0		280.3	574.5	282.2	1.000064
62500.0	175.0	-55.7		274.5	573.6	282.5	1.000062
63000.0	170.8	-56.4		274.5	573.6	282.6	1.000061

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA
0670020117
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
8 MAR 79
0630 HRS MST
ASCENSION NO. 117

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
4350.0	166.8	-56.9			268.7	572.9	283.2	76.8	1.000060
4400.0	162.9	-57.1			262.6	572.6	283.6	76.9	1.000059
4450.0	159.0	-57.5			255.9	572.1	283.2	75.1	1.000057
4500.0	155.2	-58.4			251.8	570.9	282.7	73.2	1.000056
4550.0	151.5	-59.2			246.8	569.8	281.6	74.1	1.000055
4600.0	147.9	-60.1			241.8	568.7	280.3	76.5	1.000054
4650.0	144.3	-60.9			235.9	567.6	279.7	77.1	1.000053
4700.0	140.9	-61.7			232.1	566.4	280.0	75.6	1.000052
4750.0	137.4	-62.0			225.7	566.1	280.3	73.9	1.000050
4800.0	134.1	-62.1			221.4	565.9	281.1	72.0	1.000049
4850.0	130.9	-62.3			216.2	565.7	281.9	70.2	1.000048
4900.0	127.7	-62.5			211.2	565.4	282.8	70.2	1.000047
4950.0	124.5	-62.7			206.2	565.2	283.7	70.2	1.000045
5000.0	121.6	-63.1			201.5	564.7	284.3	68.5	1.000045
5050.0	118.6	-63.8			197.3	564.7	284.8	66.0	1.000044
5100.0	115.7	-64.5			193.1	562.7	285.2	63.5	1.000043
5150.0	112.8	-65.2			189.1	561.7	285.4	61.1	1.000042
5200.0	110.1	-66.0			185.1	560.8	285.7	58.6	1.000041
5250.0	107.4	-66.4			180.9	560.2	286.0	57.5	1.000040
5300.0	104.7	-66.6			176.6	559.9	286.4	56.7	1.000039
5350.0	102.1	-66.9			172.5	559.4	286.4	56.1	1.000038
5400.0	99.6	-68.0			169.1	558.0	287.2	55.2	1.000038
5450.0	97.1	-68.0			164.9	556.0	287.5	56.3	1.000037
5500.0	94.7	-68.0			160.7	553.1	288.0	54.8	1.000036
5550.0	92.3	-67.9			156.7	558.1	288.6	52.8	1.000035
5600.0	90.0	-67.9			152.8	558.1	289.4	49.6	1.000034
5650.0	87.8	-67.1			148.4	559.2	290.4	44.3	1.000033
5700.0	85.6	-66.0			144.0	560.7	291.6	39.1	1.000032
5750.0	83.5	-64.9			139.7	562.2	292.0	33.6	1.000031
5800.0	81.5	-63.8			135.6	563.7	292.6	28.1	1.000030
5850.0	79.5	-63.6			132.1	564.0	291.4	24.2	1.000029
5900.0	77.5	-64.4			128.4	562.8	289.4	20.7	1.000029
5950.0	75.6	-65.3			126.7	561.7	288.0	18.3	1.000028
6000.0	73.8	-66.1			124.1	560.5	281.5	16.9	1.000028
6050.0	71.9	-67.0			121.5	559.4	276.5	15.7	1.000027
6100.0	70.2	-67.8			119.0	558.2	273.9	15.9	1.000027
6150.0	68.4	-63.0			113.5	564.7	271.4	16.2	1.000025
6200.0	66.8	-62.6			110.5	563.3	271.5	16.5	1.000025
6250.0	65.2	-62.3			107.7	563.7	273.1	16.9	1.000024
6300.0	63.6	-62.0			105.0	563.1	275.1	17.2	1.000023

STATION ALTITUDE 3989.00 FEET MSL
8 MAP. 79
ASCENSION NO. 117

UPPER AIR DATA
0670020117
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA	INDEX OF REFRACTION
03500.0	62.1	-61.7			102.3	566.5	261.5	16.9	1.000023
04000.0	60.6	-61.4			99.7	567.0	268.1	16.8	1.000022
04500.0	59.1	-61.0			97.1	567.4	293.3	16.6	1.000022
05000.0	57.7	-60.7			94.7	567.8	297.3	16.3	1.000021
05500.0	56.3	-60.4			92.2	568.2	301.3	16.1	1.000021
06000.0	55.0	-60.1			89.9	568.6	302.9	14.5	1.000020
06500.0	53.7	-59.8			87.6	569.0	304.7	12.8	1.000020
07000.0	52.4	-59.5			85.4	569.5	307.3	11.9	1.000019
07500.0	51.1	-59.2			83.2	569.9	310.4	12.4	1.000019
08000.0	49.9	-58.9			81.1	570.2	313.2	13.0	1.000018
08500.0	48.7	-58.8			79.1	570.3	315.3	13.2	1.000018
09000.0	47.5	-58.8			77.2	570.4	317.1	13.4	1.000017
09500.0	46.4	-58.7			75.4	570.5	319.0	13.5	1.000017
10000.0	45.3	-58.6			73.6	570.6	323.7	12.2	1.000016
10500.0	44.2	-58.6			71.8	570.7	329.4	10.9	1.000016
11000.0	43.2	-58.5			70.1	570.8	335.7	9.5	1.000016
11500.0	42.2	-58.4			68.4	570.9	347.5	7.6	1.000015
12000.0	41.2	-58.4			66.7	570.9	4.2	6.2	1.000015
12500.0	40.2	-58.3			65.1	571.0	11.7	4.5	1.000014
13000.0	39.2	-58.2			63.6	571.1	6.1	2.4	1.000014
13500.0	38.3	-58.2			62.0	571.2	312.4	.5	1.000014
14000.0	37.4	-58.1			60.6	571.3	264.8	.8	1.000013
14500.0	36.5	-58.0			59.1	571.4	264.8	1.1	1.000013
15000.0	35.6	-58.0			57.7	571.5	279.4	1.3	1.000013
15500.0	34.8	-57.9			56.3	571.5	211.8	1.6	1.000013
16000.0	34.0	-57.8			54.9	571.6	160.5	2.9	1.000012
16500.0	33.2	-57.8			53.6	571.7	162.5	4.5	1.000012
17000.0	32.4	-57.7			52.3	571.8	190.2	6.4	1.000012
17500.0	31.6	-57.6			51.1	571.9	194.3	8.5	1.000011
18000.0	30.8	-57.6			49.8	572.0	194.3	9.1	1.000011
18500.0	30.1	-57.5			48.6	572.1	189.5	7.8	1.000011
19000.0	29.4	-57.3			47.5	572.3	162.6	6.5	1.000011
19500.0	28.7	-57.1			46.3	572.6	193.8	5.2	1.000010
20000.0	28.0	-56.9			45.2	572.9	219.5	6.4	1.000010
20500.0	27.4	-56.7			44.1	573.2	237.7	8.0	1.000010
21000.0	26.7	-56.4			43.0	573.5	239.2	10.2	1.000010
21500.0	26.1	-56.2			41.9	573.8	235.5	12.5	1.000009
22000.0	25.5	-56.0			40.9	574.1	234.5	14.8	1.000009
22500.0	24.9	-55.8			39.9	574.4	235.8	12.8	1.000009
23000.0	24.3	-55.6			38.9	574.6	238.7	9.6	1.000009

STATION ALTITUDE 3989.00 FEET MSL 8 MAR. 79 0030 HRS MST ASCENSION NO. 117		UPPER AIR DATA 0670020117 WHITE SANDS		GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LONG DEG				
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
03500.0	23.7	-55.4	38.0	574.9	6.8	244.4		1.000008
04000.0	23.2	-55.1	37.1	575.2				1.000008
04500.0	22.6	-54.9	36.1	575.5				1.000008
05000.0	22.1	-54.7	35.3	575.8				1.000008

STATION ALTITUDE 3989.00 FEET MSL
 8 MAR. 79 0830 HRS MST
 ASCENSION 10. 117

MRN SIGNIFICANT LEVEL DATA
 0670020117
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

GEOPOTENTIAL ALTITUDE DECIMETERS	DIRECTION DEG (TH)	SPEED MPS	WIND DATA		DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	E-W MPS		AIR DEG C		
2594.	9999.**	9999.**	-9999.**	-9999.**	99	-54.5	2.100+1	
2385.	189.	4.	4.	1.	99	-57.5	3.000+1	
2063.	313.	7.	-5.	5.	99	-58.9	5.000+1	
1800.	271.	8.	-0.	8.	99	-62.9	6.840+1	
1654.	274.	8.	-1.	8.	99	-67.9	7.000+1	
1770.	292.	13.	-5.	12.	99	-63.2	8.040+1	
1706.	290.	25.	-8.	23.	99	-67.9	8.940+1	
1638.	287.	29.	-9.	28.	99	-68.0	1.000+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
8 MAR. 79 0630 HRS MST
ASCENSION NO. 117

MANDATORY LEVELS
0670020117
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4887.	13.0	-5.1	28.	9999.0	9999.0XX
800.0	6550.	12.4	-5.1	29.	9999.0	9999.0XX
750.0	8321.	9.4	-7.3	30.	9999.0	9999.0XX
700.0	10184.	5.6	-16.6	16.	9999.0	9999.0XX
650.0	12153.	.5	-21.0	18.	280.7	21.1
600.0	14241.	-3.9	-24.7	18.	284.0	25.4
550.0	16474.	-8.4	-28.4	18.	286.7	27.6
500.0	18876.	-13.7	-31.8	20.	288.9	33.0
450.0	21473.	-19.7	-34.4	26.	295.1	27.4
400.0	24306.	-26.2	-41.1	23.	290.2	29.2
350.0	27428.	-33.5	-47.4	23.	280.1	36.3
300.0	30912.	-42.6			286.6	31.4
250.0	34867.	-50.8			278.7	37.8
200.0	39580.	-53.1			277.5	67.1
175.0	42391.	-55.7			282.5	74.3
150.0	45580.	-59.6			281.1	75.0
125.0	49291.	-62.7			283.6	70.2
100.0	53750.	-68.0			287.1	56.2
80.0	58177.	-63.4			292.0	25.4
70.0	60840.	-67.9			273.8	15.9
60.0	63959.	-61.2			290.2	16.8
50.0	67693.	-58.9			312.7	12.9
40.0	72294.	-58.3			11.4	4.3
30.0	78245.	-57.5			189.1	7.7
25.0	82036.	-55.8			235.2	13.6

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
 8 MAP. 79
 ASCENSION NO. 117

MPN MANDATORY LEVELS
 0670020117
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

GEOPOTENTIAL ALTITUDE METERS	DIRECTION DEG (TN)	WIND DATA SPEED MPS	N-S MPS	E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
						AIR DEG C		
2501.	235.	7.	4.	6.	99	-55.8		2.500+1
2385.	189.	4.	4.	1.	99	-57.5		3.000+1
2204.	11.	2.	-2.	-0.	99	-58.3		4.000+1
2063.	313.	7.	-4.	5.	99	-58.9		5.000+1
1949.	290.	9.	-3.	8.	99	-61.2		6.000+1
1854.	274.	8.	-1.	8.	99	-67.9		7.000+1
1773.	282.	13.	-5.	12.	99	-63.4		8.000+1
1638.	287.	29.	-8.	28.	99	-68.0		1.000+2
1502.	284.	36.	-8.	35.	99	-62.7		1.250+2
1339.	281.	39.	-7.	36.	99	-59.6		1.500+2
1292.	282.	33.	-8.	37.	99	-55.7		1.750+2
1206.	278.	35.	-5.	34.	99	-53.1		2.000+2
1053.	279.	19.	-3.	19.	99	-50.8		2.500+2
942.	287.	16.	-5.	15.	99	-42.6		3.000+2
836.	280.	19.	-3.	16.	14	-33.5		3.500+2
741.	290.	15.	-5.	14.	15	-26.2		4.000+2
655.	295.	14.	-6.	13.	15	-19.7		4.500+2
575.	289.	17.	-6.	16.	18	-13.7		5.000+2
502.	287.	14.	-4.	14.	20	-8.4		5.500+2
434.	284.	13.	-3.	13.	21	-3.9		6.000+2
370.	281.	11.	-2.	11.	22	.5		6.500+2
310.	9999.**	9999.**	-9999.**	-9999.**	22	5.6		7.000+2
254.	9999.**	9999.**	-9999.**	-9999.**	17	9.4		7.500+2
200.	9999.**	9999.**	-9999.**	-9999.**	17	12.4		8.000+2
149.	9999.**	9999.**	-9999.**	-9999.**	18	13.0		8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

GEODETIC COORDINATES
32.23365 LAT DEG
106.09965 LON DEG

SIGNIFICANT LEVEL DATA
0670010107
HOLLONAN

STATION ALTITUDE 4126.59 FEET MSL
8 MAR. 79 0739 PMS MST
ASCENSION NO. 107

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
873.2 4126.6	7.0	45.0
858.0 4684.7	11.7	37.0
850.0 4882.0	11.7	35.0
727.0 9103.8	5.0	42.0
700.0 10115.4	3.2	44.0
663.6 11328.8	-1.3	36.0
654.6 11597.3	-1.4	28.0
574.6 15232.5	-8.6	27.0
500.0 18753.7	-14.9	32.0
400.0 24173.7	-27.8	34.0
323.4 29084.6	-39.7	34.0
300.0 30759.6	-44.0	
250.0 34713.4	-52.6	
233.4 36135.0	-55.3	
213.6 37938.0	-56.7	
207.6 38597.6	-58.3	
200.0 39370.0	-58.8	
150.0 45290.7	-61.1	
131.2 48019.5	-63.2	
123.1 49316.8	-61.6	
111.2 51374.9	-65.6	
110.3 51533.7	-63.5	
100.0 53505.3	-67.6	
87.6 56123.8	-69.4	
82.0 57430.7	-67.6	
76.0 58935.6	-69.0	
74.2 59413.2	-65.2	
70.0 60592.2	-62.5	
50.0 67236.0	-60.1	
38.4 72931.9	-59.9	
30.0 75956.2	-57.7	
22.4 81167.5	-56.8	
20.0 83555.5	-52.9	
17.8 89055.9	-50.8	
12.6 95533.1	-46.9	

STATION ALTITUDE 4126.59 FEET MSL
8 MAR. 79 0730 HRS MET
ASCENSION NO. 107

UPPER AIR DATA
C670C10107
FOLLOWMAN

GEODETIC COORDINATES
32.86865 LAT DEG
106.09965 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TH)	WIND SPEED KNOTS	INDEX OF REFRACTION
4126.6	873.2	7.0	-4.1	45.0	1083.7	652.7	270.0	1.9	1.000263
4500.0	861.3	10.7	-2.8	39.8	1054.9	657.0	260.2	1.4	1.000258
5000.0	845.7	11.5	-3.3	35.2	1032.8	658.0	231.2	.9	1.000252
5500.0	830.2	10.7	-3.7	36.1	1018.8	657.0	160.2	.9	1.000248
6000.0	815.1	9.9	-4.1	36.9	1001.1	656.1	219.0	1.0	1.000244
6500.0	800.2	9.1	-4.5	37.7	985.6	655.2	270.6	3.4	1.000240
7000.0	785.6	8.5	-5.0	39.5	970.3	654.3	289.7	6.4	1.000236
7500.0	771.3	7.5	-5.4	39.4	955.3	653.3	295.4	9.7	1.000233
8000.0	757.2	6.7	-5.8	40.2	940.6	652.4	293.9	12.2	1.000229
8500.0	743.4	6.0	-6.3	41.0	926.0	651.5	291.3	14.7	1.000225
9000.0	729.8	5.2	-6.7	41.8	911.7	650.5	285.9	17.1	1.000221
9500.0	716.3	4.3	-7.2	42.8	897.7	649.5	285.8	19.7	1.000217
10000.0	703.0	3.4	-7.7	43.8	884.0	648.5	287.0	22.5	1.000214
10500.0	689.9	2.2	-9.4	41.8	871.3	647.0	286.3	23.9	1.000209
11000.0	677.0	1.0	-11.4	39.0	859.0	645.5	283.9	24.7	1.000204
11500.0	664.3	-2	-13.4	36.2	846.9	644.0	282.8	24.9	1.000200
12000.0	651.8	-7	-16.9	28.0	832.5	643.4	282.0	25.2	1.000194
12500.0	639.3	-1.9	-18.0	27.8	820.3	641.9	281.9	26.0	1.000190
13000.0	627.1	-3.1	-19.1	27.7	808.3	640.4	280.4	26.6	1.000187
13500.0	615.1	-4.3	-20.2	27.5	796.5	639.0	277.6	27.2	1.000184
14000.0	603.3	-5.5	-21.4	27.4	784.9	637.5	277.8	28.0	1.000181
14500.0	591.8	-6.8	-22.5	27.2	773.4	636.0	279.2	28.9	1.000178
15000.0	580.4	-8.0	-23.6	27.1	762.1	634.6	282.0	29.0	1.000175
15500.0	569.2	-9.0	-24.4	27.4	750.3	633.3	285.2	29.0	1.000172
16000.0	558.0	-9.9	-24.9	28.1	738.1	632.2	286.1	29.2	1.000169
16500.0	547.0	-10.8	-25.4	28.8	726.1	631.1	287.0	29.6	1.000166
17000.0	536.3	-11.7	-25.9	28.5	714.3	630.0	288.3	31.8	1.000163
17500.0	525.7	-12.6	-26.5	30.2	702.7	629.0	289.6	33.6	1.000160
18000.0	515.4	-13.5	-27.0	30.9	691.2	627.9	291.0	34.5	1.000158
18500.0	505.3	-14.4	-27.6	31.6	680.0	626.8	292.3	34.3	1.000155
19000.0	495.2	-15.5	-28.3	32.1	669.1	625.5	293.6	33.5	1.000152
19500.0	485.1	-16.7	-29.3	32.3	658.5	624.1	294.0	32.7	1.000150
20000.0	475.2	-17.8	-30.3	32.5	648.1	622.6	293.4	32.1	1.000147
20500.0	465.5	-19.0	-31.3	32.6	637.9	621.1	296.3	31.7	1.000145
21000.0	456.0	-20.2	-32.3	32.8	627.8	619.7	296.2	31.3	1.000142
21500.0	446.7	-21.4	-33.3	33.0	618.0	618.2	295.2	30.8	1.000140
22000.0	437.6	-22.6	-34.3	33.2	608.3	616.7	294.6	30.1	1.000137
22500.0	428.6	-23.8	-35.3	33.4	598.7	615.3	294.2	29.4	1.000135
23000.0	419.9	-25.0	-36.4	33.6	589.3	613.9	296.3	29.2	1.000133
23500.0	411.3	-26.2	-37.4	33.7	580.1	612.3	298.4	29.0	1.000131

STATION ALTITUDE 4126.59 FEET MSL
8 MAR. 79
ASCENSION NO. 107

UPPER AIR DATA
0670010107
HOLLONAN

GEODETIC COORDINATES
32.86655 LAT DEG
106.09965 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	403.0	-27.4	33.9	571.0	610.8	300.2	28.6	1.000129
24500.0	394.5	-28.5	34.0	561.8	609.3	299.8	29.5	1.000126
25000.0	386.0	-29.8	34.0	553.5	607.9	297.7	31.5	1.000124
25500.0	377.7	-31.0	34.0	543.4	606.3	294.8	34.3	1.000122
26000.0	369.6	-32.2	34.0	534.4	604.7	292.0	37.2	1.000120
26500.0	361.7	-33.4	34.0	525.6	603.2	287.9	39.7	1.000118
27000.0	354.0	-34.6	34.0	517.0	601.7	283.6	36.2	1.000116
27500.0	346.4	-35.9	34.0	508.5	600.2	278.9	35.0	1.000114
28000.0	339.0	-37.1	34.0	500.1	598.6	275.2	33.9	1.000112
28500.0	331.7	-38.3	34.0	491.9	597.1	276.3	32.6	1.000110
29000.0	324.6	-39.5	34.0	483.9	595.5	278.1	31.9	1.000108
29500.0	317.4	-40.8	25.6**	475.6	593.9	280.8	31.4	1.000106
30000.0	310.4	-42.0	15.4**	467.9	592.2	283.9	31.8	1.000104
30500.0	303.5	-43.3	5.3**	460.1	590.6	287.4	32.3	1.000103
31000.0	296.7	-44.5		452.1	589.1	287.9	32.9	1.000101
31500.0	289.9	-45.6		443.9	587.7	289.7	34.1	1.000099
32000.0	283.3	-46.7		435.9	586.3	292.3	36.2	1.000097
32500.0	276.9	-47.8		428.0	584.8	293.3	37.4	1.000095
33000.0	270.6	-48.9		420.2	583.4	293.4	37.9	1.000094
33500.0	264.4	-50.0		412.7	582.0	288.0	37.9	1.000092
34000.0	258.4	-51.0		405.2	580.6	281.7	38.1	1.000090
34500.0	252.5	-52.1		397.9	579.2	277.5	37.9	1.000089
35000.0	246.6	-53.3		390.6	577.8	273.7	37.7	1.000087
35500.0	240.9	-54.6		383.9	575.9	272.9	37.1	1.000086
36000.0	235.2	-55.9		377.1	574.2	272.5	36.9	1.000084
36500.0	229.7	-56.7		369.7	573.1	273.0	37.7	1.000082
37000.0	224.2	-57.4		362.0	572.2	274.7	38.9	1.000081
37500.0	218.9	-58.1		354.5	571.4	275.6	44.0	1.000079
38000.0	213.7	-58.7		347.1	570.5	275.3	49.1	1.000077
38500.0	208.6	-58.4		339.3	571.0	277.4	55.3	1.000075
39000.0	203.5	-58.6		330.5	570.7	273.4	61.8	1.000074
39500.0	198.7	-58.3		323.1	570.3	273.0	67.7	1.000072
40000.0	194.0	-59.0		315.9	570.0	273.5	73.0	1.000070
40500.0	189.3	-59.2		308.3	569.6	273.6	78.3	1.000069
41000.0	184.8	-59.4		301.2	569.3	273.8	83.4	1.000067
41500.0	180.3	-59.6		294.2	569.3	273.9	87.9	1.000066
42000.0	176.0	-59.8		287.4	569.0	281.0	86.7	1.000064
42500.0	171.8	-60.0		280.8	568.8	283.1	85.6	1.000063
43000.0	167.7	-60.2		274.3	568.5	285.2	83.7	1.000061
43500.0	163.6	-60.4		267.9	568.2	284.4	81.7	1.000060

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL
8 MAR. 79 0730 HRS MST
ASCENSION I.O. 107

UPPER AIR DATA
0670010107
HOLLOWAY

GEODETIC COORDINATES
32.86865 LAT DEG
103.09955 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
44000.0	159.7	-60.6		261.6	568.0	284.4	82.0	1.000058
44500.0	153.9	-60.6		253.7	567.7	284.4	82.4	1.000057
45000.0	152.1	-61.0		249.8	567.5	283.9	83.2	1.000056
45500.0	146.5	-61.3		247.1	567.1	283.4	84.1	1.000054
46000.0	140.9	-61.6		238.6	566.6	283.2	85.3	1.000053
46500.0	141.4	-62.0		233.3	566.1	283.1	85.8	1.000052
47000.0	137.9	-62.4		228.0	565.5	283.4	84.1	1.000051
47500.0	134.6	-62.8		222.9	565.0	283.7	82.1	1.000050
48000.0	131.3	-63.2		217.9	564.5	284.3	78.9	1.000049
48500.0	128.1	-62.6		212.0	565.3	285.0	76.1	1.000047
49000.0	125.0	-62.0		205.3	566.1	285.9	74.5	1.000046
49500.0	122.0	-62.0		201.2	566.2	286.8	72.8	1.000045
50000.0	119.0	-62.9		197.2	564.9	287.3	70.5	1.000044
50500.0	116.1	-63.9		193.3	563.5	287.7	68.3	1.000043
51000.0	113.3	-64.9		189.5	562.2	287.8	66.3	1.000042
51500.0	110.5	-64.0		184.1	563.4	287.9	64.3	1.000041
52000.0	107.8	-64.5		179.9	562.8	288.0	62.9	1.000040
52500.0	105.1	-65.5		175.4	561.4	288.1	61.7	1.000039
53000.0	102.6	-66.5		172.9	560.0	288.3	60.5	1.000039
53500.0	100.0	-67.6		169.5	558.6	288.4	58.9	1.000036
54000.0	97.5	-67.9		165.6	558.1	288.5	57.2	1.000037
54500.0	95.1	-68.3		161.7	557.6	288.8	55.1	1.000035
55000.0	92.7	-68.6		157.9	557.1	289.1	51.9	1.000035
55500.0	90.4	-69.0		154.2	556.7	289.5	48.7	1.000034
56000.0	88.2	-69.3		150.7	556.2	289.2	43.7	1.000034
56500.0	86.0	-68.9		146.6	556.6	288.7	38.2	1.000033
57000.0	83.8	-68.2		142.4	557.7	287.3	33.0	1.000032
57500.0	81.7	-67.7		138.5	558.5	284.3	28.3	1.000031
58000.0	79.7	-68.1		135.4	557.8	280.1	23.8	1.000030
58500.0	77.7	-68.6		132.3	557.2	277.3	22.0	1.000029
59000.0	75.8	-68.5		128.9	557.3	274.0	20.4	1.000029
59500.0	73.9	-65.0		123.7	562.1	272.8	19.5	1.000028
60000.0	72.1	-63.9		120.0	563.3	272.3	18.8	1.000027
60500.0	70.3	-62.8		116.5	565.0	272.3	18.3	1.000026
61000.0	68.6	-62.5		113.5	563.5	272.9	17.9	1.000025
61500.0	67.0	-62.3		110.5	563.7	273.8	17.5	1.000025
62000.0	65.4	-62.1		107.9	563.0	275.7	17.0	1.000024
62500.0	63.8	-61.9		105.2	563.2	277.7	16.5	1.000023
63000.0	62.2	-61.7		102.6	566.5	273.4	16.1	1.000023
63500.0	60.7	-61.5		100.0	566.7	281.1	15.6	1.000022

STATION ALTITUDE 4126.59 FEET MSL
8 MAR. 79 0730 HRS MST
ASCENSION NO. 107

UPPER AIR DATA
0670010107
HOLLOWAY

GEOMETRIC COORDINATES
32.88865 LAT DEG
106.09865 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
64000.0	59.3	-61.4	97.5	500.9	263.2	15.3	1.000022
64500.0	57.8	-61.2	95.1	567.2	269.0	15.1	1.000021
65000.0	56.5	-61.0	92.7	567.4	280.9	14.9	1.000021
65500.0	55.1	-60.3	90.4	567.7	293.3	14.2	1.000020
66000.0	53.8	-60.6	88.1	567.9	299.3	13.5	1.000020
66500.0	52.5	-60.5	85.9	568.2	303.3	12.9	1.000019
67000.0	51.2	-60.3	83.8	568.4	307.5	12.3	1.000019
67500.0	50.0	-60.1	81.7	568.0	312.0	11.8	1.000018
68000.0	48.8	-60.1	79.7	568.7	314.7	11.5	1.000018
68500.0	47.6	-60.1	77.8	568.7	318.8	11.2	1.000017
69000.0	46.5	-60.0	76.0	568.7	319.3	10.9	1.000017
69500.0	45.3	-60.0	74.1	568.7	323.8	10.4	1.000017
70000.0	44.3	-60.0	72.3	568.6	328.9	9.9	1.000016
70500.0	43.2	-60.0	70.6	568.8	335.1	9.6	1.000016
71000.0	42.2	-60.0	68.9	568.8	342.2	9.7	1.000015
71500.0	41.2	-60.0	67.3	568.6	349.1	9.9	1.000015
72000.0	40.2	-59.9	65.6	569.9	348.3	9.1	1.000015
72500.0	39.3	-59.9	64.1	568.9	359.4	8.1	1.000014
73000.0	38.3	-59.9	62.5	568.9	361.1	7.1	1.000014
73500.0	37.4	-59.7	61.0	569.2	360.2	4.5	1.000014
74000.0	36.5	-59.4	59.5	569.5	329.8	2.0	1.000013
74500.0	35.6	-59.2	58.0	569.6	63.3	.4	1.000013
75000.0	34.8	-59.0	56.5	570.1	78.7	2.3	1.000013
75500.0	33.9	-58.8	55.1	570.4	80.0	4.2	1.000012
76000.0	33.1	-58.6	53.8	570.7	79.3	4.8	1.000012
76500.0	32.3	-58.4	52.4	570.9	77.4	4.5	1.000012
77000.0	31.5	-58.2	51.1	571.2	75.2	4.2	1.000011
77500.0	30.8	-57.9	49.9	571.5	93.0	4.1	1.000011
78000.0	30.1	-57.7	48.6	571.6	114.0	4.5	1.000011
78500.0	29.4	-57.6	47.5	571.9	129.4	5.4	1.000011
79000.0	28.7	-57.5	46.3	572.0	141.4	5.0	1.000010
79500.0	28.0	-57.5	45.2	572.1	154.5	4.9	1.000010
80000.0	27.3	-57.4	44.1	572.2	171.2	5.1	1.000010
80500.0	26.7	-57.3	43.1	572.3	192.8	6.2	1.000010
81000.0	26.1	-57.3	42.1	572.4	208.0	7.9	1.000009
81500.0	25.4	-57.2	41.0	572.5	213.2	10.1	1.000009
82000.0	24.8	-57.1	40.1	572.6	215.3	12.6	1.000009
82500.0	24.3	-57.0	39.1	572.7	214.0	13.1	1.000009
83000.0	23.7	-57.0	38.2	572.8	217.9	15.6	1.000008
83500.0	23.1	-56.9	37.3	572.9	223.3	15.5	1.000008

UPPER AIR DATA
0670010107
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
8 MAR 79 0730 HRS MST
ASCENSION NO. 107

GEODETIC COORDINATES
32.88665 LAT DEG
106.09965 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
84000.0	22.6	-56.8		36.4	573.0	226.7	15.5	1.000008
84500.0	22.1	-56.3		35.4	573.7	237.5	14.9	1.000008
85000.0	21.5	-55.4		34.5	574.8	246.9	14.7	1.000008
85500.0	21.0	-54.6		33.5	575.9	256.5	14.8	1.000007
86000.0	20.5	-53.6		32.6	577.0	257.2	14.1	1.000007
86500.0	20.1	-53.0		31.7	578.0	264.7	13.0	1.000007
87000.0	19.6	-52.5		30.9	578.6	261.6	12.0	1.000007
87500.0	19.1	-52.1		30.2	579.2	248.8	11.7	1.000007
88000.0	18.7	-51.7		29.4	579.7	246.8	12.3	1.000007
88500.0	18.3	-51.3		28.7	580.3	245.0	12.9	1.000006
89000.0	17.9	-50.9		28.0	580.8	249.1	13.7	1.000006
89500.0	17.4	-50.6		27.3	581.2	257.2	15.8	1.000006
90000.0	17.1	-50.3		26.7	581.5	265.5	18.4	1.000006
90500.0	16.7	-50.1		26.0	581.9	271.7	21.3	1.000006
91000.0	16.3	-49.8		25.4	582.2	272.3	21.4	1.000006
91500.0	15.9	-49.5		24.8	582.6	272.0	21.1	1.000006
92000.0	15.6	-49.3		24.2	582.9	271.7	20.7	1.000005
92500.0	15.2	-49.0		23.6	583.2	271.4	20.4	1.000005
93000.0	14.9	-48.8		23.1	583.6	271.2	20.0	1.000005
93500.0	14.5	-48.5		22.5	583.9	270.9	19.7	1.000005
94000.0	14.2	-48.2		22.0	584.3			1.000005
94500.0	13.9	-48.0		21.5	584.6			1.000005
95000.0	13.6	-47.7		20.9	584.9			1.000005
95500.0	13.2	-47.5		20.4	585.3			1.000005
96000.0	12.9	-47.2		20.0	585.6			1.000004
96500.0	12.6	-46.9		19.5	585.9			1.000004

STATION ALTITUDE 4126.59 FEET MSL
8 MAR. 79 0730 HRS MST
ASCENSION NO. 107

MRN SIGNIFICANT LEVEL DATA
0670010107
FOLLOWING

GEODETIC COORDINATES
32.62265 LAT DEG
106.09985 LON DEG

GEOPOTENTIAL ALTITUDE DECEMETERS	DIRECTION DEG (TN)	WIND DATA		DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS		E-W MPS	AIR DEG C	
2929.	9999.**	9999.**	-9999.**	99	-43.9	1.260+1	
2702.	248.	7.	3.	99	-50.6	1.780+1	
2626.	254.	7.	2.	99	-52.9	2.000+1	
2554.	231.	8.	5.	99	-55.8	2.240+1	
2369.	116.	2.	1.	99	-57.7	3.000+1	
2214.	332.	4.	-3.	99	-59.9	3.840+1	
2049.	312.	6.	-4.	99	-60.1	5.000+1	
1641.	272.	9.	-0.	99	-62.6	7.000+1	
1805.	273.	10.	-1.	99	-65.2	7.420+1	
1790.	274.	11.	-1.	99	-69.0	7.600+1	
1745.	285.	15.	-4.	99	-67.6	8.200+1	
1705.	289.	22.	-7.	99	-69.4	8.760+1	
1626.	288.	30.	-10.	99	-67.6	1.000+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4126.59 FEET MSL
 8 MAR 79
 ASCENSION NO. 107

MANDATORY LEVELS
 0670010107
 HOLLOWAY

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TI)	SPEED KNOTS
850.0	4859.	11.7	-3.2	35.	242.2	1.0
800.0	6214.	9.1	-4.5	36.	271.2	3.5
750.0	8200.	6.3	-6.1	41.	293.7	13.6
700.0	10100.	3.2	-7.9	44.	281.9	23.1
650.0	12060.	-1.8	-17.9	29.	282.0	25.3
600.0	14157.	-5.9	-21.7	27.	278.2	28.3
550.0	16352.	-10.6	-25.3	29.	285.7	29.3
500.0	18739.	-14.9	-27.9	32.	293.0	33.9
450.0	21323.	-21.0	-33.0	33.	295.5	30.9
400.0	24140.	-27.8	-38.8	34.	300.8	28.5
350.0	27241.	-35.3	-45.5	34.	281.1	35.5
300.0	30700.	-44.0			287.2	32.6
250.0	34640.	-52.6			275.8	37.8
200.0	39278.	-58.8			278.9	66.1
175.0	43022.	-59.9			281.2	80.5
150.0	45172.	-61.1			283.8	83.6
125.0	48867.	-62.0			285.9	74.5
100.0	53344.	-67.6			288.4	58.9
80.0	57734.	-69.1			281.1	24.7
70.0	60389.	-62.6			272.4	18.2
60.0	63517.	-61.5			281.9	15.5
50.0	67238.	-60.1			311.5	11.8
40.0	71008.	-59.9			345.8	9.0
30.0	77729.	-57.7			114.7	4.5
25.0	81509.	-57.1			212.9	11.8
20.0	86166.	-52.9			254.5	13.0
15.0	92319.	-46.9			271.3	20.2

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL
8 MAR. 79 0730 HRS MST
ASCENSION NO. 107

MRN: MANDATORY LEVELS
06730010107
HOLLOWAY

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	N-S MPS			AIR DEG C		
2614.	271.	10.	-0.	-0.	10.	99	-46.9		1.500+1
2620.	255.	7.	2.	2.	6.	99	-52.9		2.000+1
2464.	213.	6.	5.	5.	3.	99	-57.1		2.500+1
2369.	115.	2.	1.	1.	-2.	99	-57.7		3.000+1
2169.	346.	5.	-4.	-4.	1.	99	-59.9		4.000+1
2049.	312.	6.	-4.	-4.	5.	99	-60.1		5.000+1
1935.	282.	6.	-2.	-2.	8.	99	-61.5		6.000+1
1841.	272.	9.	-0.	-0.	9.	99	-62.6		7.000+1
1760.	281.	13.	-2.	-2.	12.	99	-68.1		8.000+1
1620.	288.	30.	-10.	-10.	29.	99	-67.6		1.000+2
1489.	256.	38.	-11.	-11.	37.	99	-62.0		1.250+2
1377.	284.	43.	-10.	-10.	42.	99	-61.1		1.500+2
1281.	261.	45.	-9.	-9.	44.	99	-59.9		1.750+2
1197.	279.	34.	-5.	-5.	34.	99	-58.8		2.000+2
1059.	276.	19.	-2.	-2.	19.	99	-52.6		2.500+2
930.	287.	17.	-5.	-5.	16.	99	-44.0		3.000+2
830.	281.	18.	-4.	-4.	18.	10	-35.3		3.500+2
736.	301.	15.	-8.	-8.	13.	11	-27.8		4.000+2
650.	295.	18.	-7.	-7.	14.	12	-21.0		4.500+2
571.	293.	17.	-2.	-2.	16.	13	-14.9		5.000+2
498.	287.	15.	-4.	-4.	14.	15	-10.6		5.500+2
431.	278.	15.	-3.	-3.	13.	16	-5.9		6.000+2
368.	282.	13.	-4.	-4.	11.	11	-0.8		6.500+2
308.	290.	12.	-3.	-3.	8.	12	3.2		7.000+2
252.	293.	7.	-0.	-0.	2.	14	6.3		7.500+2
199.	271.	2.	0.	0.	0.	15	9.1		8.000+2
148.	242.	1.	0.	0.	0.	15	11.7		8.500+2

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

SIGNIFICANT LEVEL DATA
0570050035
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
8 MAR. 79 0420 HRS MST
ASCENSION NO. 35

PRESSURE GEOMETRIC MILLIBARS NEL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
875.0	5.1	77.0
865.4	5.0	39.0
850.0	9.0	30.0
816.4	10.7	33.0
774.8	9.5	35.0
700.0	9.0	24.0
582.2	-7.0	20.0
500.0	-12.4	24.0
400.0	-23.0	35.0
323.6	-32.9	35.0
300.0	-41.2	
250.0	-53.1	
220.2	-53.5	
212.0	-54.5	
200.0	-54.9	
150.0	-60.5	
131.0	-64.8	
122.4	-62.8	
113.2	-63.5	
100.0	-66.1	
92.3	-69.5	
81.8	-62.5	
70.0	-57.2	
66.0	-69.9	
56.0	-61.2	
50.0	-60.5	
30.0	-58.5	
24.1	-59.1	
20.0	-55.3	
17.5	-52.0	
13.4	-49.5	

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

UPPER AIR DATA
067003035
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
8 MAR. 79 0820 HRS MST
ASCENSION NO. 35

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	875.0	5.1	1.4	77.0	1092.3	650.8	0	0	1.000276
4500.0	860.6	8.3	-5.1	38.1	1063.2	654.2	358.1	1.6	1.000257
5000.0	844.9	9.3	-5.2	35.6	1040.5	655.3	353.1	3.4	1.000252
5500.0	829.5	10.0	-5.0	34.2	1018.0	656.2	350.1	5.2	1.000247
6000.0	814.5	10.6	-4.9	33.1	997.9	656.9	354.6	6.9	1.000242
6500.0	799.7	10.1	-5.1	33.8	981.4	656.4	315.0	9.3	1.000238
7000.0	785.2	9.7	-5.2	34.5	965.3	655.8	300.5	13.2	1.000235
7500.0	770.9	9.0	-5.8	34.5	949.8	655.1	296.9	14.3	1.000230
8000.0	756.7	8.1	-7.4	32.4	935.8	653.9	295.1	15.1	1.000225
8500.0	742.8	7.1	-9.1	30.4	921.9	652.7	299.8	15.0	1.000220
9000.0	729.2	6.1	-10.8	28.4	908.3	651.5	295.0	15.3	1.000215
9500.0	715.8	5.2	-12.5	26.4	894.8	650.5	295.2	16.4	1.000211
10000.0	702.6	4.2	-14.3	24.4	881.6	649.1	296.7	17.8	1.000206
10500.0	689.4	3.1	-15.6	23.7	868.5	647.8	295.8	19.8	1.000202
11000.0	676.4	1.9	-16.8	23.3	855.7	645.5	290.8	21.1	1.000199
11500.0	663.6	.8	-18.0	22.8	843.1	643.1	267.5	21.8	1.000195
12000.0	651.0	-3	-19.2	22.4	830.6	643.7	284.7	22.4	1.000192
12500.0	638.7	-1.5	-20.4	22.0	818.4	642.4	282.3	23.1	1.000188
13000.0	626.6	-2.6	-21.6	21.6	806.3	641.0	281.0	23.8	1.000185
13500.0	614.7	-3.8	-22.7	21.2	794.4	639.6	280.2	24.4	1.000182
14000.0	603.1	-4.9	-23.9	20.8	782.8	638.2	280.4	24.0	1.000179
14500.0	591.7	-6.0	-25.1	20.4	771.3	636.9	281.3	23.3	1.000176
15000.0	580.4	-7.1	-26.2	20.1	759.8	635.5	281.7	24.4	1.000173
15500.0	569.1	-8.1	-26.7	20.6	747.9	634.4	281.8	25.8	1.000170
16000.0	557.9	-9.1	-27.3	21.1	735.7	633.2	281.5	28.1	1.000167
16500.0	547.0	-10.0	-27.9	21.6	723.9	632.1	281.8	30.2	1.000165
17000.0	535.3	-11.0	-28.4	22.2	712.5	630.9	282.7	31.7	1.000162
17500.0	525.8	-12.0	-29.0	22.7	701.0	629.7	283.5	32.9	1.000159
18000.0	515.5	-12.9	-29.5	23.2	689.8	628.6	284.3	33.8	1.000157
18500.0	505.4	-13.9	-30.1	23.7	678.8	627.4	284.7	34.2	1.000154
19000.0	495.3	-15.0	-30.8	24.5	668.1	625.1	285.0	34.2	1.000151
19500.0	485.2	-16.2	-31.4	25.5	657.7	624.5	285.1	33.8	1.000149
20000.0	475.3	-17.3	-32.1	26.5	647.5	623.0	286.0	33.1	1.000147
20500.0	465.6	-18.7	-32.8	27.5	637.4	621.5	286.2	32.5	1.000144
21000.0	456.1	-20.0	-33.5	28.5	627.5	619.9	292.7	31.9	1.000142
21500.0	446.8	-21.3	-34.3	29.5	617.8	618.4	293.4	32.2	1.000140
22000.0	437.7	-22.5	-35.1	30.6	608.2	616.9	293.8	33.0	1.000137
22500.0	428.8	-23.8	-35.9	31.6	598.8	615.3	293.8	33.1	1.000135
23000.0	420.1	-25.0	-36.7	32.6	589.6	613.7	294.9	32.9	1.000133
23500.0	411.5	-26.3	-37.5	33.6	580.5	612.2	295.7	31.9	1.000131

STATION ALTITUDE 4051.00 FEET MSL
8 MAR. 79 0020 HRS MST
ASCENSION NO. 35

UPPER AIR DATA
0670030035
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TW)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
2400.0	403.1	-27.5	-32.3	34.6	571.6	610.6	296.3	30.5	1.000129
2450.0	394.6	-28.8	-39.3	35.0	562.4	609.1	299.2	31.4	1.000127
2500.0	386.2	-30.0	-40.4	35.0	553.1	607.6	302.5	32.1	1.000124
2550.0	377.9	-31.2	-41.5	35.0	544.0	606.0	305.8	32.8	1.000122
2600.0	369.8	-32.4	-42.6	35.0	535.0	604.5	309.1	33.4	1.000120
2650.0	361.8	-33.6	-43.7	35.0	526.2	602.9	312.4	34.1	1.000118
2700.0	354.1	-34.9	-44.8	35.0	517.6	601.4	315.7	34.8	1.000116
2750.0	346.5	-36.1	-45.9	35.0	509.1	599.9	319.0	35.5	1.000114
2800.0	339.1	-37.3	-47.1	35.0	500.8	598.3	322.3	36.2	1.000112
2850.0	331.8	-38.5	-48.2	35.0	492.6	596.8	325.6	36.9	1.000110
2900.0	324.7	-39.7	-49.3	35.0	484.6	595.2	328.9	37.6	1.000108
2950.0	317.5	-41.0	-50.4	26.0**	476.4	593.6	332.2	38.3	1.000106
3000.0	310.4	-42.3	-51.5	15.7**	468.4	592.0	335.5	39.0	1.000104
3050.0	303.6	-43.5	-52.6	5.4**	460.5	590.3	338.8	39.7	1.000103
3100.0	296.7	-44.7	-53.7		452.6	588.8	342.1	40.4	1.000101
3150.0	290.0	-45.9	-54.8		444.4	587.3	345.4	41.1	1.000099
3200.0	283.3	-47.0	-55.9		436.4	585.9	348.7	41.8	1.000097
3250.0	276.8	-48.1	-57.0		428.6	584.4	352.0	42.5	1.000095
3300.0	270.6	-49.2	-58.1		420.9	582.9	355.3	43.2	1.000093
3350.0	264.4	-50.4	-59.2		413.4	581.5	358.6	43.9	1.000091
3400.0	258.5	-51.5	-60.3		406.0	580.0	361.9	44.6	1.000089
3450.0	252.4	-52.6	-61.4		398.8	578.5	365.2	45.3	1.000087
3500.0	246.6	-53.7	-62.5		391.5	577.1	368.5	46.0	1.000085
3550.0	240.8	-54.8	-63.6		384.1	575.7	371.8	46.7	1.000083
3600.0	235.1	-55.9	-64.7		376.9	574.3	375.1	47.4	1.000081
3650.0	229.5	-56.9	-65.8		369.8	572.8	378.4	48.1	1.000079
3700.0	224.1	-58.0	-66.9		362.9	571.4	381.7	48.8	1.000077
3750.0	218.8	-58.1	-68.0		356.5	570.0	385.0	49.5	1.000075
3800.0	213.7	-59.4	-69.1		350.0	568.5	388.3	50.2	1.000073
3850.0	208.6	-60.6	-70.2		343.8	567.1	391.6	50.9	1.000071
3900.0	203.7	-61.7	-71.3		337.6	565.7	394.9	51.6	1.000069
3950.0	199.0	-62.8	-72.4		331.5	564.3	398.2	52.3	1.000067
4000.0	194.2	-63.9	-73.5		325.4	562.9	401.5	53.0	1.000065
4050.0	189.6	-65.0	-74.6		319.3	561.5	404.8	53.7	1.000063
4100.0	185.1	-66.1	-75.7		313.2	560.0	408.1	54.4	1.000061
4150.0	180.7	-67.2	-76.8		307.1	558.6	411.4	55.1	1.000059
4200.0	176.4	-68.3	-77.9		301.0	557.2	414.7	55.8	1.000057
4250.0	172.2	-69.4	-79.0		295.0	555.8	418.0	56.5	1.000055
4300.0	168.1	-70.5	-80.1		289.0	554.4	421.3	57.2	1.000053
4350.0	164.2	-71.6	-81.2		283.0	553.0	424.6	57.9	1.000051
		-72.7	-82.3		277.0	551.6	427.9	58.6	1.000049

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
8 MAR. 79 0820 HRS MST
ASCENSION NO. 35

UPPER AIR DATA
057003Z075
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
44000.0	150.3	-59.2		250.9	569.9	289.8	1.000058
44500.0	150.5	-59.7		250.3	569.2	293.8	1.000057
45000.0	152.7	-60.1		249.8	568.6	292.9	1.000055
45500.0	149.1	-60.7		244.5	567.8	292.3	1.000054
46000.0	145.5	-61.5		239.4	566.6	291.8	1.000053
46500.0	141.9	-62.3		234.4	565.9	291.3	1.000052
47000.0	138.5	-63.0		229.5	564.7	291.2	1.000051
47500.0	135.1	-63.6		224.9	563.7	291.3	1.000050
48000.0	131.8	-64.6		220.2	562.9	292.1	1.000049
48500.0	128.6	-64.3		214.5	562.1	292.9	1.000048
49000.0	125.5	-63.5		208.5	561.0	297.5	1.000046
49500.0	122.4	-62.8		202.7	559.5	289.2	1.000045
50000.0	119.4	-63.9		198.6	563.5	289.0	1.000044
50500.0	116.5	-65.0		195.0	562.0	289.6	1.000043
51000.0	113.6	-66.1		191.2	560.5	291.1	1.000043
51500.0	110.8	-66.8		187.1	559.7	291.4	1.000042
52000.0	108.1	-67.4		182.9	558.9	291.8	1.000041
52500.0	105.4	-67.9		178.9	558.1	291.0	1.000040
53000.0	102.7	-68.5		174.9	557.3	289.9	1.000039
53500.0	100.2	-69.1		171.0	556.6	289.8	1.000038
54000.0	97.7	-69.2		166.8	556.4	289.0	1.000037
54500.0	95.2	-69.2		162.7	556.3	287.2	1.000036
55000.0	92.9	-69.3		158.7	556.2	286.2	1.000035
55500.0	90.6	-68.2		153.9	557.7	289.3	1.000034
56000.0	88.3	-66.7		149.1	559.7	291.5	1.000033
56500.0	86.1	-65.3		144.4	561.7	297.9	1.000032
57000.0	84.0	-63.9		139.9	563.5	297.9	1.000031
57500.0	82.0	-62.4		135.5	565.5	300.3	1.000030
58000.0	79.9	-63.0		132.5	567.7	303.4	1.000030
58500.0	78.0	-63.8		129.8	569.7	303.3	1.000029
59000.0	75.1	-64.6		127.1	562.9	300.3	1.000028
59500.0	74.2	-65.4		124.4	561.9	296.7	1.000028
60000.0	72.4	-66.1		121.8	560.5	290.7	1.000027
60500.0	70.6	-66.9		118.3	559.5	285.2	1.000027
61000.0	68.9	-67.7		115.6	558.4	281.7	1.000026
61500.0	67.2	-68.4		112.5	557.3	281.7	1.000025
62000.0	65.5	-68.5		109.1	556.6	281.3	1.000024
62500.0	63.9	-67.4		106.0	555.6	283.2	1.000023
63000.0	62.3	-66.2		102.9	554.5	283.3	1.000023
63500.0	60.8	-65.0		99.8	553.0	283.3	1.000023

GEODETIC COORDINATES
 73.14712 LAT DEG
 106.99011 LON DEG

UPPER AIR DATA
 067000Z-030
 JALLEN

STATION ALTITUDE 4051.00 FEET MSL
 8 MAR 79 0820 HRS MST
 ASCENSION NO. 35

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES C	REL. HUM. PERCENT	DENSITY G/CU CM METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
6400.0	59.3	-63.9		98.7	560.9	284.7	15.4	1.000022
6450.0	57.8	-62.7		95.6	555.1	280.5	13.4	1.000021
6500.0	56.4	-61.6		92.9	549.7	286.9	11.4	1.000021
6550.0	55.1	-60.1		90.4	547.3	298.2	10.4	1.000020
6600.0	53.7	-58.9		88.2	547.3	298.2	9.4	1.000020
6650.0	52.4	-58.8		85.0	547.7	300.9	8.7	1.000019
6700.0	51.2	-60.6		83.9	547.9	300.0	8.8	1.000019
6750.0	49.9	-60.5		81.6	548.1	309.0	9.0	1.000018
6800.0	48.6	-60.5		79.9	548.2	312.7	9.5	1.000018
6850.0	47.6	-60.4		77.9	548.3	313.7	10.5	1.000017
6900.0	46.4	-60.3		76.0	548.3	314.9	11.5	1.000017
6950.0	45.3	-60.3		74.2	548.4	315.9	12.4	1.000017
7000.0	44.3	-60.3		72.4	548.4	316.6	13.2	1.000016
7050.0	43.2	-60.2		70.7	548.5	317.2	14.1	1.000016
7100.0	42.2	-60.2		69.0	548.5	321.1	14.1	1.000015
7150.0	41.1	-60.1		67.3	548.6	327.2	13.7	1.000015
7200.0	40.2	-60.1		65.7	548.7	333.3	13.6	1.000015
7250.0	39.2	-60.0		64.1	548.7	341.9	12.5	1.000014
7300.0	38.3	-60.0		62.3	548.6	350.1	11.3	1.000014
7350.0	37.5	-59.9		61.9	548.9	350.0	10.6	1.000014
7400.0	36.5	-59.8		59.8	548.9	14.0	9.1	1.000013
7450.0	35.6	-59.8		58.1	549.0	16.2	7.1	1.000013
7500.0	34.7	-59.8		56.7	549.1	20.7	5.1	1.000013
7550.0	33.9	-59.7		55.3	549.1	18.7	3.3	1.000012
7600.0	33.1	-59.7		54.0	549.2	500.4	2.6	1.000012
7650.0	32.3	-59.6		52.7	549.2	200.9	3.5	1.000012
7700.0	31.5	-59.6		51.4	549.3	278.9	4.9	1.000011
7750.0	30.8	-59.5		50.2	549.4	200.8	6.2	1.000011
7800.0	30.0	-59.5		49.0	549.4	200.3	7.6	1.000011
7850.0	29.3	-59.5		47.8	549.5	200.5	8.9	1.000011
7900.0	28.6	-59.4		46.5	549.5	200.5	10.6	1.000010
7950.0	27.9	-59.4		45.5	549.5	200.2	11.8	1.000010
8000.0	27.3	-59.3		44.4	549.7	200.6	12.5	1.000010
8050.0	26.6	-59.3		43.4	549.7	200.5	13.1	1.000009
8100.0	26.0	-59.2		42.3	549.7	200.2	13.6	1.000009
8150.0	25.4	-59.2		41.3	549.6	200.7	14.3	1.000009
8200.0	24.8	-59.1		40.3	549.3	200.9	15.1	1.000009
8250.0	24.2	-59.1		39.3	549.0	200.4	15.6	1.000008
8300.0	23.6	-59.0		37.9	571.2	200.1	16.8	1.000008

STATION ALTITUDE 4051.00 FEET MSL
8 MAR. 79 0620 HRS MST
ASCENSION NO. 35

UPPER AIR DATA
0070030035
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY G/CM ³ MEIER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN) SPEED KNOTS	INDEX OF REFRACTION
84000.0	22.5	-57.7		36.4	571.8	225.2	1.000008
84500.0	22.0	-57.2		35.4	573.5	225.2	1.000008
85000.0	21.4	-56.7		34.5	573.1	225.3	1.000008
85500.0	20.9	-56.2		33.6	573.8	227.7	1.000007
86000.0	20.4	-55.7		32.9	574.4	232.7	1.000007
86500.0	20.0	-55.3		31.9	575.1	236.5	1.000007
87000.0	19.5	-54.6		31.1	575.9	245.2	1.000007
87500.0	19.0	-54.0		30.3	576.7	251.5	1.000007
88000.0	18.6	-53.4		29.5	577.5	258.0	1.000007
88500.0	18.2	-52.8		28.7	578.3	264.2	1.000006
89000.0	17.8	-52.2		28.0	579.1	269.1	1.000006
89500.0	17.3	-51.9		27.3	579.5	273.9	1.000006
90000.0	16.9	-51.7		26.6	579.8	279.4	1.000006
90500.0	16.6	-51.4		26.0	580.1	285.4	1.000006
91000.0	16.2	-51.2		25.4	580.4	288.2	1.000006
91500.0	15.8	-51.0		24.8	580.6	290.2	1.000006
92000.0	15.4	-50.8		24.2	580.9	291.8	1.000005
92500.0	15.1	-50.6		23.6	581.2		1.000005
93000.0	14.7	-50.4		23.1	581.5		1.000005
93500.0	14.4	-50.2		22.5	581.7		1.000005
94000.0	14.1	-50.0		22.0	582.0		1.000005
94500.0	13.8	-49.7		21.4	582.3		1.000005
95000.0	13.4	-49.5		20.9	582.6		1.000005

STATION ALTITUDE 4051.00 FEET MSL
 8 MAR. 79 0920 HRS MST
 ASCENSION. NO. 35

MRN SIGNIFICANT LEVEL DATA
 0370030035
 VALLEY

GEODETIC COORDINATES
 32.16712 LAT DEG
 106.49511 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
2683.	999.**	999.**	-999.**	-999.**	99	-49.5	1.340+1	
2705.	271.	5.	-0.	0.	99	-52.0	1.700+1	
2625.	235.	7.	4.	0.	99	-35.3	2.000+1	
2503.	224.	8.	6.	5.	99	-58.1	2.410+1	
2368.	262.	4.	1.	4.	99	-39.5	3.000+1	
2049.	309.	5.	-3.	4.	99	-60.5	5.000+1	
1979.	290.	6.	-2.	5.	99	-61.2	5.000+1	
1879.	281.	11.	-2.	11.	99	-68.9	6.000+1	
1843.	283.	11.	-3.	10.	99	-67.2	7.000+1	
1749.	300.	16.	-2.	14.	99	-62.3	8.180+1	
1675.	268.	28.	-9.	27.	99	-69.3	9.230+1	
1627.	289.	32.	-10.	30.	99	-69.1	1.000+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
8 MAR. 79 0820 HRS MST
ASCENSION NO. 35

MANDATORY LEVELS
0670000000
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

PRESSURE	GEOPOTENTIAL	TEMPERATURE	REL. HUM.	WIND DATA	
				DIRECTION	SPEED
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	PERCENT	DEGREES (TN)	KNOTS
850.0	4833.	9.0	36.	358.1	2.8
800.0	6485.	-5.2	34.	317.0	9.2
750.0	8239.	-8.2	21.	295.9	15.1
700.0	10091.	-14.7	24.	296.1	18.2
650.0	12031.	-19.3	22.	284.4	22.5
600.0	14122.	-24.2	21.	280.8	23.8
550.0	16334.	-27.7	21.	211.5	29.7
500.0	18746.	-30.5	21.	284.9	34.2
450.0	21334.	-34.0	29.	293.5	32.0
400.0	24159.	-38.7	35.	296.9	30.3
350.0	27248.	-45.4	35.	204.8	39.7
300.0	30704.	-53.1		279.5	36.1
250.0	34631.	-57.4		281.3	46.9
200.0	39200.	-63.4		279.2	70.0
175.0	42055.	-69.1		202.5	80.9
150.0	45253.	-63.0		282.4	78.3
125.0	48339.	-57.2		264.7	78.2
100.0	53378.	-60.1		288.9	62.3
80.0	57005.	-60.5		303.2	27.4
70.0	60473.	-64.4		283.7	20.9
60.0	63820.	-60.1		283.9	16.5
50.0	67232.	-59.5		308.0	9.0
40.0	71797.	-50.2		334.2	13.6
30.0	77099.	-55.3		262.4	7.5
25.0	81442.	-50.5		222.5	13.9
20.0	86066.	-50.5		227.5	14.0
15.0	92171.				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
 8 MAP. 79 0620 HRS MST
 ASCENSION NO. 35

MRN MANDATORY LEVELS
 05700303E
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOPOTENTIAL ALTITUDE DECA METERS	DIRECTION DEG (TN)	WIND DATA SPEED MPS	WIND DATA N-S MPS	WIND DATA E-W MPS	CLIM PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
						AIR DEG C		
2809.	999.99	999.99	-999.99	-999.99	99	-50.5		1.500+1
2823.	238.	7.	4.	0.	99	-55.3		2.000+1
2482.	223.	7.	5.	0.	99	-59.2		2.500+1
2358.	262.	4.	1.	4.	99	-59.5		3.000+1
2188.	334.	7.	-3.	3.	99	-60.1		4.000+1
2049.	309.	5.	-3.	4.	99	-60.5		5.000+1
1930.	284.	0.	-3.	0.	99	-64.4		6.000+1
1843.	284.	11.	-3.	10.	99	-67.2		7.000+1
1762.	303.	14.	-8.	12.	99	-68.0		8.000+1
1627.	289.	32.	-10.	30.	99	-69.1		1.000+2
1492.	285.	40.	-10.	39.	99	-63.4		1.250+2
1379.	282.	40.	-9.	39.	99	-60.5		1.500+2
1283.	283.	42.	-9.	41.	99	-57.4		1.750+2
1198.	279.	39.	-6.	39.	99	-54.8		2.000+2
1055.	281.	24.	-5.	24.	99	-53.1		2.500+2
936.	279.	19.	-5.	18.	99	-44.2		3.000+2
831.	285.	20.	-5.	20.	10	-35.5		3.500+2
736.	297.	16.	-7.	14.	11	-28.0		4.000+2
650.	293.	16.	-7.	15.	13	-20.9		4.500+2
571.	265.	13.	-5.	17.	15	-14.4		5.000+2
498.	282.	15.	-3.	15.	18	-9.8		5.500+2
431.	281.	12.	-3.	12.	19	-5.2		6.000+2
367.	284.	12.	-3.	11.	19	-4.0		6.500+2
308.	296.	9.	-4.	8.	19	7.6		7.000+2
251.	296.	6.	-3.	7.	16	10.2		7.500+2
198.	310.	5.	-3.	5.	15	9.0		8.000+2
147.	358.	1.	-1.	0.	14			8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.